
Product Data Sheet

Product Name: MMP1 Human, sf9

Cat. No.: GP21930

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Matrix Metalloproteinase 1; Interstitial Collagenase; Fibroblast Collagenase; EC 3.4.24.7; CLG; Matrix Metalloproteinase 1 (Interstitial Collagenase); Matrix Metalloproteinase 1 (Interstitial Collagenase); Matrix Metalloproteinase 1; Matrix Metalloproteinase-1; Matrix Metalloprotease 1; EC3.4.24; MMP-1; CLGN; Fibroblast collagenase; Matrix metalloproteinase-1; MMP-1.

Amino Acid Sequence HSPATLETQ EQDVDLVQKY LEKYYNLKNL GRQVEKRRNS GPVVEKLLKQM QEFFGLKVTG KPDAETLKVM KQPRCGVPDV AQFVLTEGPN RWEQTHLTYR IENYTPDLPR ADVDHAIKA FQLWSNVTP LTFKTVSEGQA DIMISFVRGD HRDNSPFDGP GGNLAHAFQP GPGIGGDAH DEDERWTNNF REYNLHRVAA HELGHSGLS HSTDIGALMY PSYTFSGDVQ LAQDDIDGIQ AIYGRSQNPV QPIGPQTPKA CDSKLTDAI TTIRGEVMFF KDRFYMRTNP FYPEVELNFI SVFWPQLPNG LEAAYEFADR DEVRFFKGNK YWAVQGGQNVL HGYPKDIYSS FGFPRTVKHI DAALSEENTG KTYFFVANKY WRYDEYKRSM DPGYPKMAIH DFPGIGHKVD AVFMKDGFFY FFHGTRQYKF DPKTKRILTL QKANSWFNCR KNLEHHHHHH.

Formulation MMP1 protein solution (0.25mg/ml) containing 20mM MES buffer (pH 5.5), 10mM CaCl₂, 100 mM NaCl, 0.05% Brij35 and 30% glycerol.**Introduction**

MMP-1 (interstitial collagenase) can break down a wide range of substrates including types I, II, III, VII, VIII, and X collagens as well as L-Selectin, pro-TNF, IL-1 β , IGFBP-3, IGFBP-5, casein, gelatin, α 1 antitrypsin, myelin basic protein, pro-MMP2 and pro-MMP9. A significant function of MMP-1 is the degradation of fibrillar collagens in extracellular matrix remodeling. MMP-1 is expressed in fibroblasts, keratinocytes, endothelial cells,

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monocytes and macrophages. MMP1 can be divided into a number of distinct domains: a prodomain which is cleaved on activation, a catalytic domain containing the zinc binding site and a short hinge region with a carboxyl terminal domain. MMP1 is part of a cluster of MMP genes which localize to chromosome 11q22.3.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MMP1 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 460 amino acids (18-469a.a) and having a molecular mass of 53.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). MMP1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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